

Title (en)  
Fluidized catalytic cracking feed nozzle

Title (de)  
Einspritzdüse für katalytisches Wirbelschichtkracken

Title (fr)  
Buse d'alimentation à craquage catalytique fluidisé

Publication  
**EP 1844851 A1 20071017 (EN)**

Application  
**EP 07007318 A 20070410**

Priority  
US 40210806 A 20060411

Abstract (en)  
A nozzle for the atomized spray of liquid hydrocarbon feed in a fluidized catalytic cracking apparatus having two or more slots with at least one lateral slot wall formed at an angle of from about 30 to about 60 degrees from the axis of the discharge. Also a method of spraying atomized hydrocarbon feed/steam into a fluidized catalytic cracking reactor using the nozzle described.

IPC 8 full level  
**B01J 8/24** (2006.01); **B01J 19/26** (2006.01); **C10G 11/18** (2006.01)

CPC (source: EP KR US)  
**B01J 4/002** (2013.01 - EP US); **B01J 8/1827** (2013.01 - EP US); **B01J 19/26** (2013.01 - EP US); **B05B 1/26** (2013.01 - KR); **C10G 11/18** (2013.01 - EP KR US); **B01J 2219/00247** (2013.01 - EP US)

Citation (search report)

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US11548800B2; WO2011080754A3

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1844851 A1 20071017**; AU 2007201399 A1 20071025; AU 2007201399 B2 20111020; CA 2583883 A1 20071011; CA 2583883 C 20111004; JP 2007291398 A 20071108; KR 101375893 B1 20140318; KR 20070101162 A 20071016; SA 07280177 B1 20110514; SG 136895 A1 20071129; US 2007246574 A1 20071025; US 7793859 B2 20100914

DOCDB simple family (application)  
**EP 07007318 A 20070410**; AU 2007201399 A 20070330; CA 2583883 A 20070404; JP 2007123956 A 20070406; KR 20070035167 A 20070410; SA 07280177 A 20070411; SG 2007026685 A 20070411; US 40210806 A 20060411